CONDITIONS OF APPROVAL, IF ANY:



# SUBMIT IN TRACCATE\* (Other instructions on reverse side)

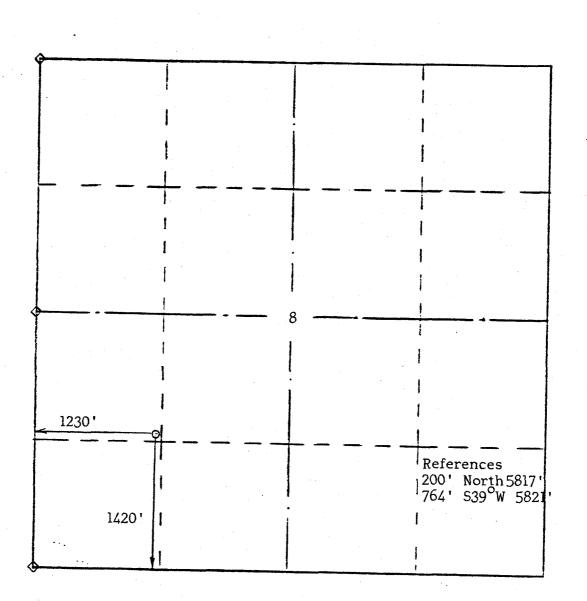
Form approved. Budget Bureau No. 42-R1425.

# UNITED STATES DEPARTMENT OF THE INTERIOR

	GEOLG		5. LEASE DESIGNATION AND SERIAL NO. V-50412			
	N FOR PERMIT	TO DRILL, D	EEPEN, OR	PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
1a. TYPE OF WORK  DRI  b. TYPE OF WELL	ILL X	DEEPEN [	] P	LUG BA	CK 🗆	7. UNIT AGREEMENT NAME N/A
OIL (Y) G.	AS OTHER		SINGLE X	MULTIP Zone	LE	S. FARM OR LEASE NAME
2. NAME OF OPERATOR		· · · · · · · · · · · · · · · · · · ·				Federal Federal
	Dil & Gas Corp.	c/o Permito	o 303/595	-4051		9. WELL NO.
3. ADDRESS OF OPERATOR		· D CO	00000			#8-13
4. LOCATION OF WELL (R	reet, Suite 22E	., Denver, CU	8UZUZ	nanta *\		10. FIRED AND POOL, OR WILDCAT
At curions	20' FSL & 1230'					
At proposed prod. zon		· · · · · · · · · · · · · · · · · · ·	Nw.	Sur		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  Sec. 8, T37S-R22E
14. DISTANCE IN MILES	AND DIRECTION FROM NE.	AREST TOWN OR POST		· · · · · · · · · · · · · · · · · · ·		12. COUNTY OR PARISH   13. STATE
5.5 miles Sou	uthwest of Blan	ding, Utah				San Juan Utah
15. DISTANCE FROM PROPE LOCATION TO NEARES: PROPERTY OR LEASE 1 (Also to nearest drlg	r .ine. ft.	90	3,260.31	N LEASE		OF ACRES ASSIGNED HIS WELL 40
18. DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON TH	OSED LOCATION* RILLING, COMPLETED,	None	19. PROPOSED DEPT 6600' A	kel	20. вота	ROTary
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)	1	Ψ	<u>/\</u>	<u> </u>	22. APPROX. DATE WORK WILL START*
5811' GR					: .	Immediately upon approva
23.		PROPOSED CASING	AND CEMENTI	NG PROGRA	M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SETTING	DEPTH	ī	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36#	239	8'	1075	sxs - circ to surface
7 7/8"	5 1/2"	15.5#	660	0'		xs - or sufficient to cove
					zones	of interest
formation.	l Oil & Gas Cor If productive pe plugged & ab	, casing wil	1 be run &	the wel	1 comp	the Desert Creek leted. If dry the equirements.
See Onshore	e Order No. 1 a	ttached	OIL DATA	GAS.	DIVI	HESTATE SION OF MINING
			BY.	fotes	X · Z	Days
IN ABOVE SPACE DESCRIBE zone. If proposal is to preventer program, if an	drill or deepen direction	proposal is to deeper ally, give pertinent of	or plug back, giv data on subsurface	e data on pr locations ar	resent prod id measure	ductive zone and proposed new productive d and true vertical depths. Give blowout
signed Slad	- 4. She	TITLI	Consultan Wintersha		& Gas	Corp. 11/7/84
(This space for Fede	ral or State office use)					
PERMIT NO.			APPROVAL DA	re		
ADDDAUEN DV						

1"=1000'

# WELL LOCATION AND ACREAGE DEDICATION PLAT



Operator Wintershall O &	G	Well name 8-13 1	Feder	al
Section Township 8 37 Section 8	outh	Range 22 East	<del> </del>	Meridian SLM
Footages 1420' FS & 1230' FW		nty/State Juan, Utah		Flevation 5811
Formation	Formation Dedicated Acre			ested by a Green
The above plat is true are of my knowledge and belief October 26, 1984	f.	Mo.	870 ALC 6	5 00 MV.s

5675 DTC Boulevard, Suite 200 Englewood, Colorado 80111 U.S.A.

Wintershall
Oil and Gas Corporation
Englewood, Colorado

Bureau of Land Management

RE: Federal #8-13 Federal #27-43

San Juan County, Utah

11/9/80

Gentlemen:

This letter is to inform you that Permitco is authorized to act as Agent and to sign documents on behalf of Wintershall Oil and Gas Corporation when necessary for filing county, state, and federal permits including Onshore Order No. 1, R-O-W applications, etc.; for the abovementioned well.

It should be understood that Permitco is acting as Agent only in those matters stated above and is not responsible for drilling, completion, production, or compliance with regulations.

Wintershall Oil and Gas Corporation agrees to accept full responsibility for operations conducted in order to drill, complete, and produce the above-mentioned well.

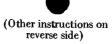
Sincerely yours,

A. E. Straub

Vice President - Production

AES:ram

## STATE OF UTAH **DEPARTMENT OF NATURAL RESOURCES** DIVISION OF OIL, GAS, AND MINING



	DIVISION OF OIL,	GAS, AND MINING		5. Lease Designation and Serial No. U-50412
APPLICATION  1a. Type of Work	FOR PERMIT T	O DRILL, DEEP	EN, OR PLUG BAC	6. If Indian, Allottee or Tribe Name
DRILL b. Type of Well	_ <b>∑</b>	DEEPEN	PLUG BACK	7. Unit Agreement Name N/A
Oil Well Gas Well  2. Name of Operator	Other	•	Single Multiple Zone	8. Farm or Lease Name Federal
	Dil & Gas Corp.	c/o Permitco	303/595-4051	9. Well No.
3. Address of Operator				#8-13
		, Denver, CO		10. Field and Pool, or Wildcat
4. Location of Well (Report At surface	location clearly and in	accordance with any State	requirements.*)	Wildcat
	& 1230' FWL			11. Sec., T., R., M., or Blk. and Survey or Area
At proposed prod. zone				Sec. 8, T37S-R22E
14. Distance in miles and d			7 <u>4</u> 8	12. County or Parrish 13. State
5.5 miles Sou	uthwest of Blar			San Juan Utah
location to nearest property or lease line, (Also to nearest drlg. lin	ft. ne, if any)			No. of acres assigned to this well 40
<ol> <li>Distance from proposed to nearest well, drilling, or applied for, on this le</li> </ol>	location* completed, ease, ft.  None		roposed depth 20.	Rotary or cable tools Rotary
21. Elevations (Show whether	er DF, RT, GR, etc.)			22. Approx. date work will start*
5811' GR				Immediately upon approv
28.		PROPOSED CASING AND	D CEMENTING PROGRAM	
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4"	9 5/8"	36#	2398'	1075 sxs - circ to surface
7 7/8"	5 1/2"	15.5#	6660'	450 sxs - or sufficient to cover zones of interest.
Creek format	ion. If produc	ctive, casing w	ill be run and the	O' to test the Desert well completed. If dry Utah requirements.
	1 ( 4.55			
				•
			•	
See Onshore (	Order No. 1 att	cached		
				· .
ductive zone. If proposal is preventer program, if any.	IBE PROPOSED PROGRES to drill or deepen direct	AM: If proposal is to de	eepen or plug back, give data on ta on subsurface locations and r	n present productive zone and proposed new pro- neasured and true vertical depths. Give blowout
Signed	L Gre		sultant for tershall Oil & Gas	Corp Date
(This space for Federal	or State office use)			
Permit No			Approval Date	
Approved byConditions of approval,	if any:	Title		Date

#### ONSHORE OIL & GAS ORDER NO. 1

Approval of Operations on Onshore Federal and Indian Oil and Gas Leases

> Federal #8-13 1420' FSL and 1230' FWL Sec. 8, T37S - R22E San Juan County, Utah

> > Prepared For:

WINTERSHALL OIL & GAS CORP.

By:

PERMITCO 1020-15th Street, Suite 22E Denver, Colorado 80202

#### Copies Sent To:

- 4 BLM Moab, Utah
- 1 BLM Monticello, Utah
- 1 Division of Oil Gas & Mining SLC, Utah
- 5 Wintershall Oil & Gas Corp Denver, CO





A Petroleum Permitting Company

November 7, 1984

State of Utah Division of Oil, Gas & Mining 4241 State Office Building Salt Lake City, Utah 84114

Re: Wintershall Oil & Gas Corp.
Federal #8-13
1420' FSL and 1230' FWL
Sec. 8, T37S - R22E
San Juan County, Utah

Gentlemen:

Wintershall Oil & Gas Corp. proposes to drill a well at the above mentioned location.

We realize that this location is a non-standard location in accordance with the spacing rules of the State of Utah. This location was picked due to topography and extensive seismic work which was done in the immediate area.

Wintershall Oil & Gas Corp. is the lease holder of the following:

T37S - R22E: Sec. 7: All

Therefore, no other lease holders will be affected by the drilling of the above proposed well. We, therefore, request your permission to drill this well at a non-standard location.

Sincerely,

PERMITCO

Lisa L. Green Consultant for

Wintershall Oil and Gas Corp.

cc: Wintershall Oil & Gas Corp.



November 7, 1984

State of Utah Division of Oil, Gas & Mining 4241 State Office Building Salt Lake City, Utah 84114

Re: Wintershall Oil & Gas Corp.

Federal #8-13

1420' FSL and 1230' FWL Sec. 8, T37S - R22E San Juan County, Utah

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Sec. 7: All
Sec 8: W/2 E/2 per from tol
Sec 8: 11/19/84

Therefore, no other lease holders will be affected by the drilling of the above proposed well. We, therefore, request your permission to drill this well at a non-standard location.

Sincerely,

Lisa L. Green

Consultant for

Wintershall Oil and Gas Corp.

cc: Wintershall Oil & Gas Corp.

ONSHORE ORDER NO.
Wintershall Oil & Sas Corp.
Federal 8-13
1420' FSL and 1230' FWL
Sec. 8, T37S - R22E
San Juan County, Utah

#### DRILLING PROGRAM

# ONSHORE OIL & GAS ORDER NO. 1 Approval of Operations on Onshore Federal and Indian Oil and Gas Leases

1. The surface formation and estimated formation tops to be encountered are as follows:

Formation	Depth	Subsea
Morrison	Surface	· · · · · · · · · · · · · · · · · · ·
Navajo	1658'	+4153'
Chinle	2348	+3463'
Cutler/DeChelly	3408'	+2403'
Honaker Trail	5201'	+ 610'
Upper Ismay	6111'	- 300'
Lower Ismay	6258'	- 447'
Desert Creek	6326'	- 515'
Akah	6458'	- 647'
T.D.	6600'	

2. The estimated depths at which oil, gas, water or other mineral bearing zones are expected to be encountered are as follows:

Substance	Formation	Anticipated Depth
Oil/Gas	Upper Ismay	6111'
Oil/Gas	Lower Ismay	6258'
Oil/Gas	Desert Creek	6326'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth cased and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Pressure control equipment will consist of a 10", 3000# BOP. (See BOP Diagram attached.)



ONSHORE ORDER NO.
Wintershall Oil & Corp.
Federal 8-13

1420' FSL and 1230' FWL
Sec. 8, T37S - R22E
San Juan County, Utah

#### DRILLING PROGRAM

Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

# 4. a. <u>Casing</u>

The proposed casing program is as follows:

							<u>new</u>
Purpose	Depth	Hole Size		Wt.	Grade	Type	Used
Surface	0-2398'	12-1/4"	9-5/8"	36#	J-55	ST&C	New
Produc.	0 <b>-6</b> 600 <b>'</b>	7-7/8"	5-1/2"	15.5#	J-55	ST&C	New

#### b. Cement

Surface

The cementing program will be as follows:

0-2398'	875 sx Lite, Tail in with 200 sx Class B (neat). Cement will be circulated to surface.				
Production	Type and Amount				
T.D 5000' 2700-3200'	250 sx low water loss Class "B" Cement 200 sx low water loss Class "B" Cement				

Type and Amount

- c. Auxiliary Equipment will be as follows:
  - 1. Kelly cock.
  - 2. Float above the bit.



ONSHORE ORDER NO.
Wintershall Oil & Gas Corp.
Federal 8-13
1420' FSL and 1230' FWL
Sec. 8, T37S - R22E
San Juan County, Utah

#### DRILLING PROGRAM

- c. Auxillary Equipment (cont.)
  - 3. A sub with a full opening valve will be on the floor when the kelly is not in use.
  - 4. Monitoring of the system will be done visually.
- 5. Drilling fluid will be as follows:

Interval	Mud Type	Mud Wt.	Visc.	F/L	PH
0-1650'	Gel Water	8.7-8.8	30	N/C	N/C
1650-5000'	Gel Chemical	9.0-9.5	40	10	10+
5000-T.D.	Gel Chemical	10-14	40-45	8-10	10+

- 6. Coring, logging and testing programs are as follows:
  - a. One 60' core will be run in the Upper Ismay.
  - b. The logging program will consist of a DIL SFL, GR SP; BHC Sonic GR Caliper from Surface to T.D. and a CHL Litho Density GR Caliper and Dipmeter and Velocity Survey from 4000' to T.D.
  - c. Drill stem tests will be run in the Upper Ismay and Desert Creek at drilling breaks or shows.

Whether the well is completed as a dry hole or as a producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analysis, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the District Manager.



ONSHORE ORDER NO Wintershall Oil & Gas Corp. Federal 8-13 1420' FSL and 1230' FWL Sec. 8, T37S - R22E San Juan County, Utah

#### DRILLING PROGRAM

- 7. Abnormal conditions, bottom hole pressures and potential hazards.
  - a. The maximum bottom hole pressure to be expected is 3500 psi.
  - b. Wintershall Oil & Gas Corp. plans to spud the Federal #8-13 on November 15, 1984 and intends to complete the well within approximately one month after the well has reached T.D.
  - c. The operator will contact the San Juan Resource Area at 801/587-2201, 48 hours prior to beginning any dirt work on this location.
  - d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.
  - e. The spud date will be reported orally to the San Juan Area Manager, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5) will be sent within 24 hours of spudding, reporting the spud date and time. The Sundry will be sent to the District Manager.
  - f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations begin and continue each month until the well is physically plugged and abandoned. This report will be sent to the Moab BLM District Office, P. O. Box 970, Moab, Utah 84532.
  - g. If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the District Manager. All conditions of this approved plan are applicable during all operations conducted with the replacement rig.



ONSHORE ORDER NO.
Wintershall Oil & Corp.
Federal 8-13
1420' FSL and 1230' FWL
Sec. 8, T37S - R22E
San Juan County, Utah

#### DRILLING PROGRAM

- h. If the well is successfully completed for production, then the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, no later than the first business day following the date on which the well is placed on production.
- i. No well abandonment operations will begin without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Manager. A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager, within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration.
- j. Final abandonment will not be approved until surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the San Juan Area Manager or his representative, or the appropriate Surface Managing Agency.
- k. A first production conference will be scheduled within 15 days after receipt of the first production notice. The operator will schedule the conference with the San Juan Area Manager.



WELL NAME	·	•	•	•	•
LOCATION	\$	•			
•		•			
•		•	•	·• .	•
		· ~	•	•	•
•	•		•		
	9-5/8" Drilling Nipple / "		7 "Circulating Line		
				3	
•					
• •	_				•
	- R		) -	•	
•				•	•
				•	
BOP BId Roms 10	"x 3000 WPZ		B		•
	,		BOP D.P.	Roms 10 x	3000 V.P.
•				Not R yd. Valve"	equiredWP (Omit
Check Volve 2 "x 30	. (Let				• •
Valve 2'					<u>000 W.P.</u>
1	<u> </u>				7.0-
	AN COMP				2 "Line
					MANIFOLD LINE
KILL LINE MANIFO	DLD Spool 10 "x 3000 WP-		<b>A</b>		3000 <sub>W.P.</sub> - (See Exhibit "8")
Ground	Lovel		Ш	•	

WELL HEAD B.O.P. 3000 ₩W.P.

⊠ Hydraulic

ONSHORE OIL & GASERDER NO. 1
Wintershall Oil & GASERDER NO. 1
Wintershall Oil & GASERDER NO. 1
Federal 8-13
1420' FSL and 1230' FWL
Sec. 8, T37S - R22E
San Juan County, Utah

#### SURFACE USE PLAN

#### ONSHORE OIL & GAS ORDER NO. 1

#### Thirteen Point Surface Use Plan

#### 1. Existing Roads

- a. The proposed well site is located 5.5 miles from Blanding, Utah.
- b. Directions to the location from Blanding are as follows:
  Go south on Highway 47 for 3 miles. Turn west at Shirt Tail
  Corners and proceed on Highway 95 for 2.5 miles. Turn north
  on existing road and go 1/4 miles to gravel pit entrance.
  Turn left on to new access (flagged) and proceed approximately
  700 feet to the location.
- c. For location of access roads within a 2-Mile radius, see Map #1.
- d. Improvement to the existing access will not be necessary and will be limited to the total existing disturbed width.
- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. An encroachment permit will be obtained from the San Juan County Road Department, 801/587-2231, ext. 43.

#### 2. Planned Access Roads

- a. The road will initially be flatbladed during drilling operations and will be 20-22 feet wide. The maximum total disturbed width will be 30 feet.
- b. The maximum grade will be 5%.
- c. No turnouts are planned.
- d. The access road was centerline flagged at the time of staking.



ONSHORE OIL & GAS ORDER NO. 1 Wintershall Oil & Gas Corp. Federal 8-13 1420' FSL and 1230' FWL Sec. 8, T37S - R22E San Juan County, Utah

#### SURFACE USE PLAN

# 2. Planned Access Roads (cont.)

- e. Drainage will be installed as deemed necessary by the dirt contractor.
- f. No gates, cattleguards or fence cuts will be necessary.
- g. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
- h. The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drilling rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.
- i. No culverts will be necessary.
- 1. Surfacing material will not be placed on the access road or location without prior BLM approval.

# 3. <u>Location of Existing Wells Within a 1-Mile Radius of the Proposed</u> Location. (See Map #2).

- a. Water Wells none
- b. Injection or disposal wells none
- c. Producing Wells none
- d. Drilling Wells none



ONSHORE OIL & GAS RDER NO. 1
Wintershall Oil & Gas Corp.
Federal 8-13
1420' FSL and 1230' FWL
Sec. 8, T37S - R22E
San Juan County, Utah

#### SURFACE USE PLAN

# 4. Location of Tank Batteries and Production Facilities.

- a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be neutral to blend in with the environment.
- b. If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.
- c. Tank batteries will be placed as shown on Diagram #1.
- d. All loading lines will be placed inside the berm surrounding the tank battery.
- e. Any necessary pits will be properly fenced to prevent any wildlife entry. The production pit will be flagged overhead.
- f. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.
- g. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.
- h. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.
- i. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.



ONSHORE OIL & GAS RDER NO. 1 Wintershall Oil & Gas Corp. Federal 8-13 1420' FSL and 1230' FWL Sec. 8, T37S - R22E San Juan County, Utah

#### SURFACE USE PLAN

## 4. Location of Tank Batteries and Production Facilities (cont.)

j. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The San Juan Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Moab District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

### 5. Location and Type of Water Supply

- a. All water needed for drilling purposes will be obtained from Fred Halliday which is located in the SW/4 SE/4 Sec. 22, T37S R22E or from Clyde Watkins in the C S/2 Sec. 1, T37S R22E. Directions to the water sources are shown on Map #1.
- b. Water will be trucked to location over the roads marked on Map #1.
- c. No water well is to be drilled on this lease.
- d. Use of water for this operation will approved by obtaining a temporary use permit from the Utah State Engineer, 801/637-1303, and by receiving permission from the land owner of surface management agency to use the land containing the water source.

#### 6. Source of Construction Material

- a. Road surfacing and pad construction material will be obtained from a commercial source.
- b. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2.3. Construction material will not be located on lease.



ONSHORE OIL & GAS DER NO. 1
Wintershall Oil & Gas Corp.
Federal 8-13
1420' FSL and 1230' FWL
Sec. 8, T37S - R22E
San Juan County, Utah

#### SURFACE USE PLAN

# 7. Methods of Handling Waste Disposal

- a. The reserve pit will be lined with commercial bentonite sufficient to prevent seepage at the discretion of the dirt contractor. At least half of the capacity will be in cut.
- b. Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.
- c. A trash pit will be constructed near the mud tanks and dug at least six feet into solid, undisturbed material. It will be totally enclosed with a fine wire mesh before the rig moves in. The road and pad will be kept litter free.
- d. A burning permit is required for burning trash between May 1 and October 31. A burn permit will be requested if drilling is to occur during these dates.
- e. Produced waste water will be confined to a unlined pit for a period not to exceed 90 days after initial production. During the 90-day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order.

# 8. <u>Ancillary Facilities</u>

a. There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

# 9. Well Site Layout

a. See Diagram #2 for rig layout. See Diagram #3 for cross section of drill pad. See Diagram #4 for cuts and fills.



ONSHORE OIL & GAS DER NO. 1 Wintershall Oil & Gas Corp. Federal 8-13
1420' FSL and 1230' FWL Sec. 8, T37S - R22E
San Juan County, Utah

## SURFACE USE PLAN

# 9. Well Site Layout (cont.)

- b. The location of mud tanks; reserve, burn and trash pits; pipe racks; living facilities and soil stockpiles will be shown on Diagrams #2 & #4. The location will be laid out and constructed as discussed during the predrill conference.
- c. The top 4 inches of soil material will be removed from the location and stockpiled separate from the trees on the northwest side. Topsoil along the access will be reserved in place.
- d. Access to the well pad will be from the southwest.

#### 10. Reclamation

- a. Immediately upon completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.
- b. The operator or his contractor will contact the San Juan Resource Area office in Monticello, Utah (801/587-2201) 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
- c. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- e. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 6 inches deep with the contour.



ONSHORE OIL & GAS DER NO. 1
Wintershall Oil & Gas Corp.
Federal 8-13
1420' FSL and 1230' FWL
Sec. 8, T37S - R22E
San Juan County, Utah

#### SURFACE USE PLAN

# 10. Plans for Reclamation of Surface (cont.)

f. Water bars will be built as follows to control erosion.

Grade	Spacing				
2% 2-4% 4-5% 5+%	Every 200 Feet Every 100 Feet Every 75 Feet				
コナを	Every 50 Feet				

- g. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.
  - 2 lbs/acre Indian Ricegrass (Oryzopsis Hymehoides)
  - 2 lbs/acre Western Wheatgrass (Agropyron Smithii)
  - l lbs/acre Cliffrose (Cowania Mexicana)
  - 1/2 lb/acre Yellow Sweetclover
- h. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.
- i. The reserve pit and that portion of the location and access road not needed for production and production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.
- 11. a. <u>Surface Ownership</u>

Federal

b. Mineral Ownership

Federal



ONSHORE OIL & GAS DER NO. 1 Wintershall Oil & GAS Corp. Federal 8-13 1420' FSL and 1230' FWL Sec. 8, T37S - R22E San Juan County, Utah

#### SURFACE USE PLAN

## 12. Other Information

- a. There will be no change from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.
- b. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.
- c. The dirt contractor will be provided with an approved copy of the surface use plan.
- d. If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All people who are in the area will be informed by the operator that they are subject to prosecution for disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archeological sites will be done by a BIM approved archeologist only if damage occurs.
- e. This permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.
- f. An archeological study was performed by LaPlata Archaeological Consultants. No significant cultural resources were found and clearance is recommended. This report will be submitted directly by LaPlata Archaeological Consultants.
- g. A Right-of-Way Grant will be necessary on approximately 1/8 mile existing access which is located in the NW NW Sec. 17, T37S R22E. Enclosed is a check in the amount of \$70.00 to cover filing fees for this Right-of-Way.
- h. Your contact with the District Office is:
  Bob Graff
  P.O. Box 970
  Moab, Utah 84532
  (801/259-6111)



ONSHORE OIL & GAS DER NO. 1
Wintershall Oil & Gas Corp.
Federal 8-13
1420' FSL and 1230' FWL
Sec. 8, T37S - R22E
San Juan County, Utah

#### SURFACE USE PLAN

#### 12. Other Information (cont.)

i. Resource Area Manager's address and contacts: Rich McClure P.O. Box 7 Monticello, UT 84535 (801/587-2201)

## 13. Lessee's or Operator's Representative and Certification

#### Permit Matters

Permitco Lisa L. Green 1020-15th Street Suite 22-E Denver, Co. 80202 303/595-4051

### Drilling & Completion Matters

Wintershall Oil & Gas Corp.
David Howell
5675 DTC Blvd.
Suite 200
Englewood, CO 80111
303/694-0988 (W)
303/423-1025 (H)

### Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Wintershall Oil & Gas Corp. and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

November 7, 1984

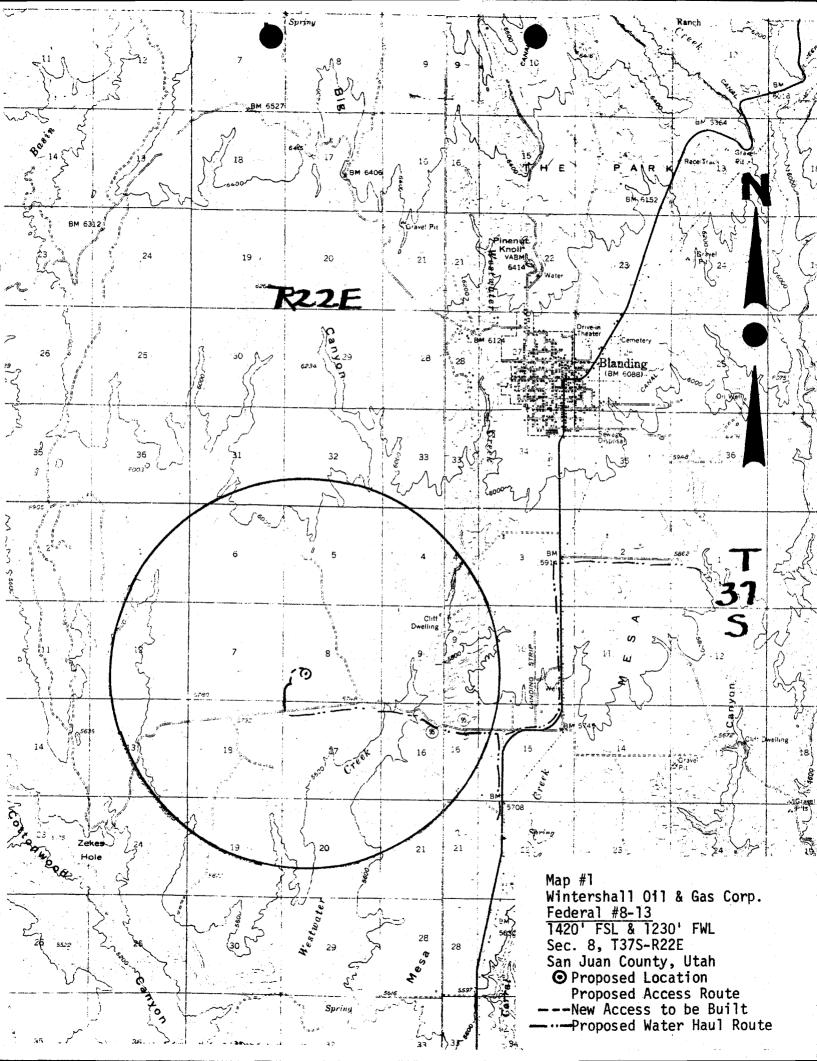
Date:

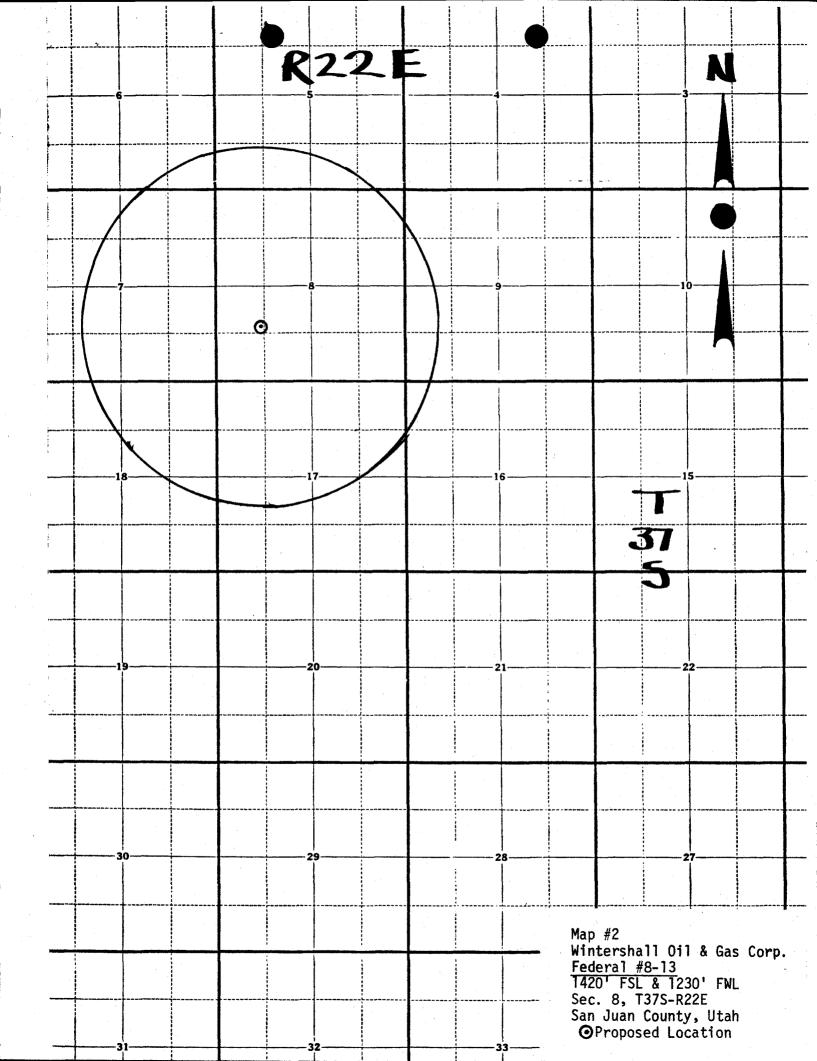
Lisa L. Green - PERMITCO

Authorized Agent for:

WINTERSHALL OIL & GAS CORP.







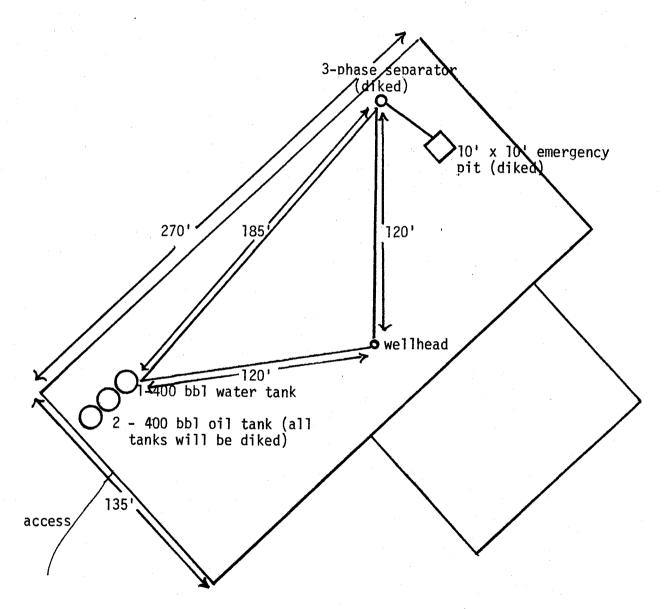


Diagram #1
Production Facility Layout
Wintershall Oil & Gas Corp.
Federal #8-13
1420' FSL & 1230' FWL
Sec. 8, T37S-R22E
San Juan County, Utah

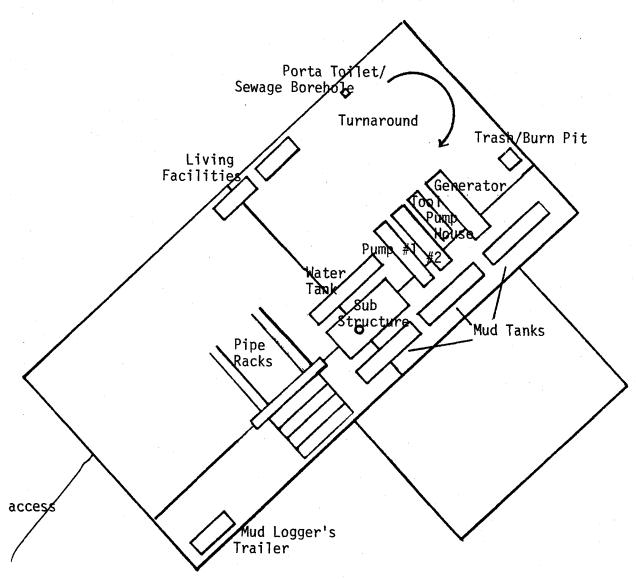


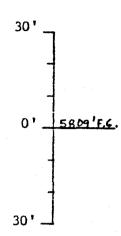
Diagram #2
Wellpad Layout
Wintershall Oil & Gas Corp.
Federal #8-13
1420' FSL & 1230' FWL
Sec. 8, T37S-R22E
San Juan County, Utah

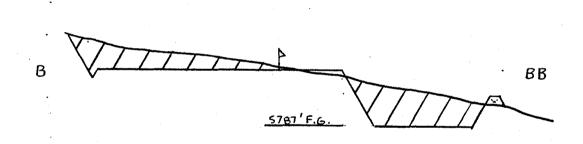
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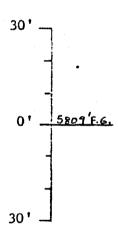
Cut //// Fill Scales: 1" = 60' H. l"=30' V.

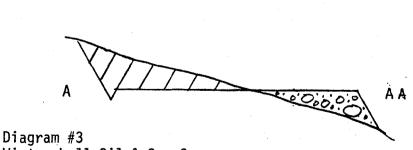
1.7 Vertical Exaggeration



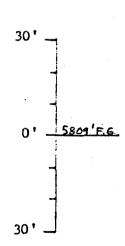


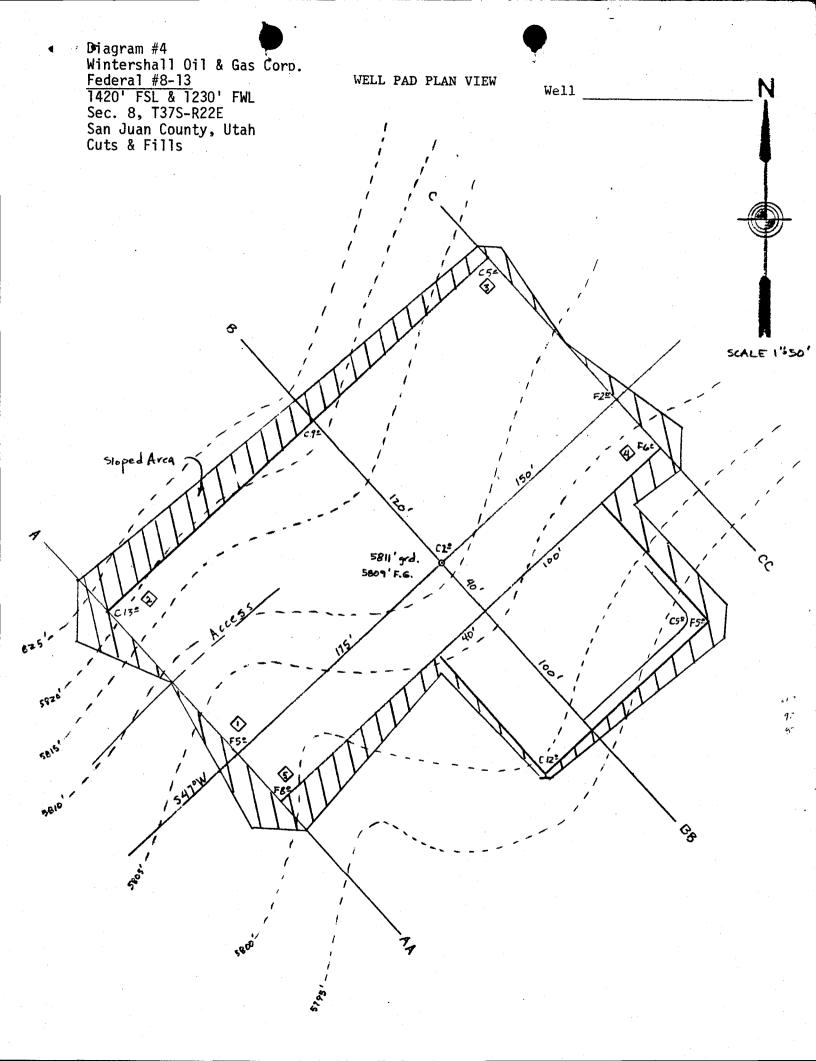




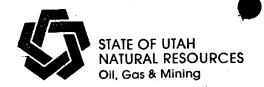


Wintershall Oil & Gas Corp.
Federal #8-13
1420' FSL & 1230' FWL
Sec. 8, T37S-R22E
San Juan County, Utah





OPERATOR WELL NAME Jel	Eishall C	il x Las	Cens	DATE	1-9-84
WELL NAME Jul	. #8-13				
SEC NWSW8	T 375	R 22E	COUNTY A	in Jese.	J
	37-31/05		J.	el	
	NUMBER		TYPE OF	LEASE	
CHECK OFF:					
PLAT		BOND			NEAREST WELL
LEAS	SE .	FIELD			POTASH OR OIL SHALE
PROCESSING COMMENTS:					<b>S</b> <sub>0</sub> , 1
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Exception	requested			,	
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APPROVAL LETTER:		:			
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4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

November 20, 1984

Wintershall Oil & Gas Corporation c/o Permitco 1020 15th Street, Suite 22E Denver, Colorado 80202

#### Gentlemen:

Re: Well No. Federal 8-13 - NWSW Sec. 8, T. 37S, R. 22E 1420' FSL, 1230' FWL, San Juan County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

- 1. Spudding notification to the Division within 24 hours after drilling operations commence.
- 2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
- 3. Prompt notification to the Division should you detetermine that its necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
- 4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2 Wintershall Oil & Gas Well No. Federal 8-13 November 20, 1984

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31105.

Sincerely,

R. S. Flirth

Associate Director, Oil & Gas

gl Enclosures

cc: Branch of Fluid Minerals

1a. TYPE OF WORK

b. TYPE OF WELL WELL X

2. NAME OF OPERATOR

3. ADDRESS OF OPERATOR

15. DISTANCE FROM PROPOSED\*

# SUBMIT IN TRIPLICA

# (Other instructions o

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 5.5 miles Southwest of Blanding, Utah

UNITED STA DEPARTMENT OF THE GEOLOGICAL S	ATES (Other ins reversed) HE INTERIOR URVEY	TRIPLICATE* tructions on se side)	RECD MDO  5. LEASE DESIGNATION .  4-50412	No. 42-R1425.
APPLICATION FOR PERMIT TO DRIL	L, DEEPEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
TYPE OF WELL DIL X GAS	SINGLE [Y] MUI	ACK	N/A  7. UNIT AGREEMENT NA  N/A  S. FARM OR LEARE NAM	
NAME OF OPERATOR	20		Federal	·•
Wintershall Oil & Gas Corp. c/o Pe	rmitco 303/595-4051		9. WELL NO.	<del></del>
ADDRESS OF OPERATOR		······································	#8-13	
1020 15th Street, Suite 22E, Denve			10. FIELD AND POOL, OF	WILDCAT
LOCATION OF WELL (Report location clearly and in accordant surface 1420' FSL & 1230' FWL	ice with any State requirements.*)		Wildcat	
			11. SEC., T., R., M., OR B AND SURVEY OR ARI	LK.
At proposed prod. zone			Sec. 8, T37	S-R22E
DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN (			12. COUNTY OR PARISH	13. STATE
5.5 miles Southwest of Blanding, U $^{\circ}$	tah	· •	San Juan	Utah
DISTANCE FROM PROPUSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. No. OF ACRES IN LEASE 3,260.37		F ACRES ASSIGNED US WELL 40	
DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  NONe	19. PROPOSED DEPTH 6600'		x or cable tools Rotary	
ELEVATIONS (Show whether DF, RT, GR, etc.)  5811' GR			22. APPROX. DATE WOR	

18. DISTANCE FROM PROPOSED LOCATION\*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 19. PROPOSED DEPTH 20. R None 6600' 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5811' GR 23. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 12 1/4" 9 5/8" 36# 23981 1075 sxs - circ to surface 7/8" 5 1/2" 15.5# 6600' 450 sxs - or sufficient to cover zones of interest

Wintershall Oil & Gas Corp. proposes to drill a well to test the Desert Creek formation. If productive, casing will be run & the well completed. If dry the well will be plugged & abandoned as per BLM & State of Utah requirements.

See Onshore Order No. 1 attached



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zo pr  $\overline{24}$ 

signed Signed	tinent da	Consultant for Wintershall Oil &			1 depths. Giv	e blowout
(This space for Federal or State office use)						
PERMIT NO.		APPROVAL DATE	· · · · · · · · · · · · · · · · · · ·			· <del></del>
APPROVED BY /S/ GENE NODINE CONDITIONS OF APPROVAL, IF ANY:	TITLE .	DISTRICT MANAGER	· · · · · · · · · · · · · · · · · · ·	DATE	0 8 JAN	1985

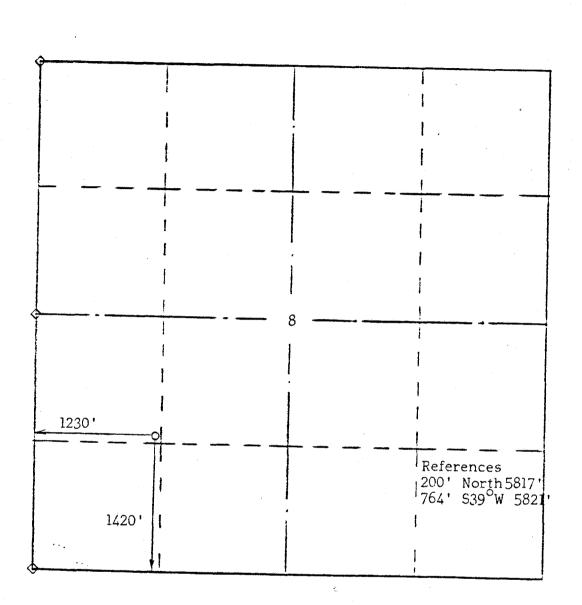
SUBJECT TO RIGHT OF WAY APPROVAL

NOTICE OF APPROVAL

FLARING OR VENTING OF GAS IS SUBJECT OF NTL 4-A **DATED 1/1/80** 

1"=1000'

# WELL LOCATION AND ACREAGE DEDICATION PLAT



Operator Wintershall O 8 Section   Township		Well name 8-13	Federal		
8 37 5	South	Range 22 East		Meridian SLM	
Footages 1420' FS & 1230' FW	San	nty/State Juan, Utah		Elevation 5811	
Formation	Dedicated A		Lisa	ted by Green	
The above plat is true a of my knowledge and beli October 26, 1984	ef.	No.		1.s/	

# DIVISION OF OIL, GAS AND MINING

NAME OF COMPANY: Wintershall Oil & O	Gas Company
WELL NAME: Federal #8-13	
SECTION_NW SW 8 TOWNSHIP 37S RANGE	22E COUNTY San Juan
DRILLING CONTRACTOR Coleman	
RIG #_3	•
SPUDDED: DATE 1-23-85	
TIME 2:30 PM	
How Rotary	
DRILLING WILL COMMENCE	
REPORTED BY Kim Lucks	
TELEPHONE #	
1 24 25	
DATE 1-24-85	_ SIGNEDRJF

SPUDDING INFORMATION

0412

# DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

	Marian Caracteristics and the Caracteristics
GEOLÓGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA
SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different	7. UNIT AGREEMENT NAME NA
reservoir. Use Form 9-331-C for such proposals.)  1. oil gas	. 8. FARM OR LEASE NAME Ederal
2. NAME OF OPERATOR	9. WELL NO. 8-13
Wintershall Oil & Gas Corporation  3. ADDRESS OF OPERATOR Englewood,	10. FIELD OR WILDCAT NAME Wildcat
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: AT TOP PROD. INTERVAL: Same AT TOTAL DEPTH: Same	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  Sec. 8, T37S-R22E  12. COUNTY OR PARISH 13. STATE  San Juan Utah
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	14. API NO. 43-037-31105
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:  TEST WATER SHUT-OFF	15. ELEVATIONS (SHOW DF, KDB, AND WD) 5811' GR  (NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Well spudded 1-23-85 at 2:30 p.m.
2 jts 13 3/8" casing set @ 90'KB w/ll0 sx cement. Circ cement to surface.

Present operations: Drilling ahead.

RECEIVED

JA1 2 8 1085

DIVISION OF OIL GAS & MINING

Subsurface Safety Valve: Manu. and Type		Set @	Ft.
18. I hereby certify that the foregoing is true and	correct		· ·
SIGNED Kim Lucks	TLE Operations Enginate	1-24-85	
	pace for Federal or State office use)		
APPROVED BY	TITLE DAT	E	

\*See Instructions on Reverse Side

CC: Utah Oil, Gas, & Mining Div.

# ORAL APPROVAL TO PLUG AND ABANDON WELL

perator_\		. •				Dave How	
ell No.£	rd 8-13	Locat	ion <u></u>	¼ Secti	on <b>8</b>	Township 375	Range 22E
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BREAKDOWN	i FLUID	rype 🦠	re Carlo	-مختصر () س	VOLUME		tatian.	க்கூDENS	ITY	PRESSURE	144.55	MAX.	a, <b>re</b> jetation	MIN:	1
□ HESITATI	òη sq.	1.3645.	RUNNII	NG SQ.	CIRCULA	TION LO	ST	Fai.: □YE	s 🗆 N	O Cement Circu	lated To	Surf. 🗷	YES 🗆 N	) ****	Bbls
BREAKDOWN	। ःे <b>१</b> ≲।	FINAL	生元的行	PSI	DISPLACE	MENT V	OL.	性"加维(数)	Bb	IS TYPE OIL OF OGAS	:5° D	STORAG	SE 📆 🗀	BRINE	WATER
Washed Thru I	erfs 🗆 Y E	т оиДе	·o 🦠	*°∴°FΤ	MEASURE	D DISPL	ACEME	vt <b>y</b> Zt ∭□wif	RELIN	IE WELL GAS	, % O	INJECT	אלי אסו	(MILDC	AT goog
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# CEMENTING SERVICE REPORT SUPPLEMENT LOG DWL-496-1 PRINTED IN U.S.A.

DATE

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CUSTOMER WEL	L NAME AND	NUMBER		LOCA	TION (LEGAL)	575	- 22	DOWELL LOCATION TREATMENT NUMBER 09 8 /  FOR LC 2 C 12 PAGES
	OOCC	CUDE	.≱evoLü	17-70				
TIME	ATBG	CASING	PUMPE!	D BBL M	UNIECT STATE	FLUID :	FEUID	SERVICE LOG DETAIL
444					5.76,00		Today (* 14	
,050			2.4	27.4	3	1/2	O	Displace W/2 4 Bbls WAter
1051		ng/ja	25					Disglace w/ mude
1057								Disp. complete- Pall 1057ds WOC.
1345	ie in vien				. Wide			Trip in to Tra Cement.
							5.8.	Tagged Coment Plug
								Lay down Drill P.pe.
						-		CALL For more Coment from Town
1650			3:		15	1.13	0	Pump WA tee Ahard of Coment.
1652	_am_iak	14	11	/ <b>= f</b>	15	-		mer coment
1659			$AI^{(n)}$	1 8	15	1-6	0	Flush Lines who water: Plans at to Sur
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TICKET NO. 71986600 07-FEB-85 FARMINGTON

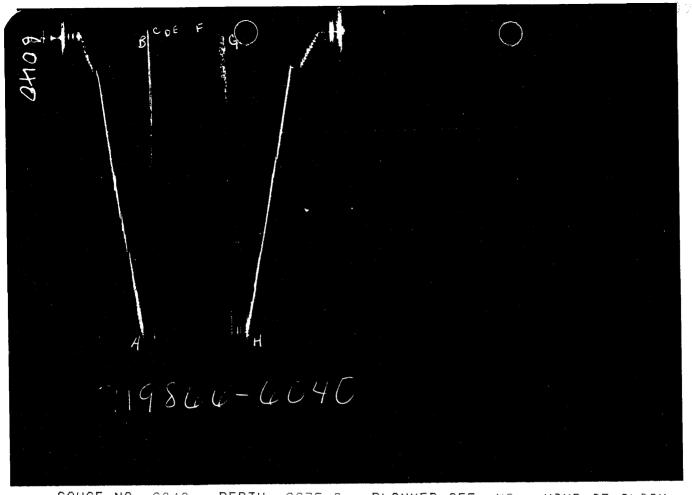
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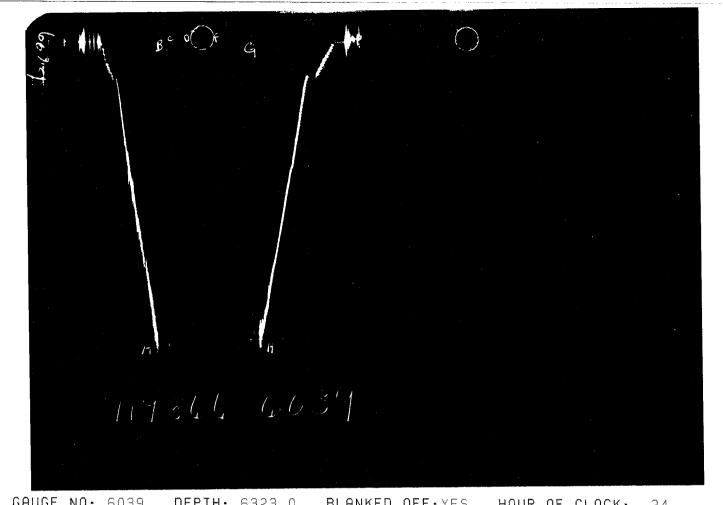
Division of Oil GAS & MINING

FORMATION TESTING SERVICE REPORT

8-37N-22E 8-13 WELL NO. FIELD AREA LL OIL AND GAS CORPORATION
LEASE OWNER/COMPANY NAME



GAUG	E NO: <u>6040</u> DEPTH: <u>6275.0</u>	BLANK	(ED OFF:_I	NO HOUR	OF CLOCK	<u>24</u>
ID	DESCRIPTION	PRES	SSURE CALCULATED	T I REPORTED	ME CALCULATED	TYPE
А	INITIAL HYDROSTATIC	3020	3001.4			
В	INITIAL FIRST FLOW	14	15.4	15.0	1.5.0	_
С	FINAL FIRST FLOW	14	14.1	15.0	15.0	F
С	INITIAL FIRST CLOSED-IN	14	14.1	22.4	22.4	
D	FINAL FIRST CLOSED-IN	14	14.1	33.0	33.0	С
Ε	INITIAL SECOND FLOW	14	14.1	CO 0	00.0	F
F	FINAL SECOND FLOW	14	14.1	60.0	60.0	F
F	INITIAL SECOND CLOSED-IN	1 4	14.1	60.0	00.0	
G	FINAL SECOND CLOSED-IN	14	18.9	60.0	60.0	С
Н	FINAL HYDROSTATIC	3020	3004.2			



GHUG	E NO: 6039 DEPTH: 6323.0	_ BLANK	KED OFF: <u>Y</u> I	<u>ES</u> HOUR	OF CLOCK	: 24
ID	DESCRIPTION	PRE REPORTED	SSURE EALCULATED	T I I	ME CALCULATED	TYPE
А	INITIAL HYDROSTATIC	3030	3030.8			
В	INITIAL FIRST FLOW	27	40.9	15.0	4.5	-
С	FINAL FIRST FLOW	27	34.2	15.0	15.0	F
С	INITIAL FIRST CLOSED-IN	27	34.2	22.4	22.2	
D	FINAL FIRST CLOSED-IN	40	42.7	33.0	33.0	С
E	INITIAL SECOND FLOW	27	42.7	60.0		_
F	FINAL SECOND FLOW	27	35,2	60.0	60.0	F
F	INITIAL SECOND CLOSED-IN	27	35.2	CO 0	00.0	
G	FINAL SECOND CLOSED-IN	40	47.0	60.0	60.0	С
Н	FINAL HYDROSTATIC	3030	3032.2	-		

<u> </u>	IZE MEHSUR	ING DEVICE:			TICKET NO: 719856
TIME	CHOKE S1ZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
2-2-85					
335					ON LOCATION
0500					PICKED UP TOOL
0534				, -	TOOL ON TRIP IN
0837	1/8BH	0			OPENED TOOL
0852	n	0		-	CLOSED TOOL
0925	11	0			OPENED TOOL WITH NO BLOW
1025	"	0			CLOSED TOOL
1125			*		OPENED BY-PASS, TRIP OUT.
1645				· · · · · · · · · · · · · · · · · · ·	JOB COMPLETED
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\$ 11		1i			7	
		0.D.	I.O.		ENGTH	DEPTH
				6		
	BRILL PIPE.	. 4.500	3.826		5421.0	
	FLEX WEIGHT	4.500	2.764		119.0	
	ORILL COLLARS	. 6.250	2.500		657.0	
b	IMPACT REVERSING SUB	6.000	3.000		1.0	6198.0
	DRILL COLLARS	6.250	2.500	1	63.0	
	CROSSOVER	6.000	3.000		1.0	
0	BUAL CIP SAMPLER	5.000	0.750		7.0	• •
0	HYDROSPRING TESTER	5.000	0.750		5.0	6273.0
	AR RUNNING CASE	. 5.000	2.250		4.0	6275.0
	JAR	5.000	1.750		5.0	
v	VR SAFETY JOINT	5.000	1.000	(1) (2) (3)	3.0	
	OPEN HOLE PACKER	6.750	1.530		6.0	6290.0
	OPEN HOLE PACKER	. 6.750	1.530	· · · · · · · · · · · · · · · · · · ·	6.0	6296.0
	FLUSH JOINT ANCHOR	5.750	2.500		24.0	
0	BLANKED-OFF RUNNING CASE	5.750		* * * * * * * * * * * * * * * * * * *	4.0	6323.0
	TOTAL DEPTH			) 1	•	6326.0
					:	
				4		

EQUIPMENT & HOLE DATA	TICKET NUMBER: 71986600
FORMATION TESTED: LOWER ISMAY	DATE: 2-2-85 TEST NO: 1
NET PAY (ft): 10.0  GROSS TESTED FOOTAGE: 30.0	Bittle IE 2 00 IE 31 NO. 11
ALL DEPTHS MEASURED FROM: KB	TYPE DST: OPEN HOLE
CASING PERFS. (ft):	
HOLE OR CASING SIZE (tn): 7.875	HALLIBURTON CAMP:
ELEVATION (ft): 5825	<u>FARMINGTON</u>
TOTAL DEPTH (ft): 6326.0	АШЛ
PACKER QEPTH(S) (ft): 6290, 6296	TESTER: AULD
FINAL SURFACE CHOKE (tn):	
BOTTOM HOLE CHOKE (in): 0.750	WITNESS: LOWRY
MUD WEIGHT (1b/gal): 9.20	William I
MUD VISCOSITY (sec):38	
ESTIMATED HOLE TEMP. (°F):	DRILLING CONTRACTOR:
ACTUAL HOLE TEMP. (°F): 128 0 6322.0 ft	COLEMAN #3
FLUID PROPERTIES FOR RECOVERED MUD & WATER SOURCE RESISTIVITY CHLORIDES	SAMPLER DATA Pata AT SURFACE:C
e ppm	1 a
6 ppm	c¢ OF OIL:
	c¢ OF WATER:
@ ppm	c¢ OF WATER:
	c¢ OF WATER:
0	c¢ OF WATER:
HYDROCARBON PROPERTIES  OIL GRAVITY (°API): @°F  GAS/OIL RATIO (cu.ft. per bbl):	c¢ OF WATER:
## OF PPM    OF	CC OF WATER:
HYDROCARBON PROPERTIES  OIL GRAVITY (°API): @°F  GAS/OIL RATIO (cu.ft. per bbl):	CC OF WATER:
HYDROCARBON PROPERTIES  OIL GRAVITY (°API):	CC OF WATER:
HYDROCARBON PROPERTIES  OIL GRAVITY (°API):	CC OF WATER:
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RECEIVED FEB 1 3 1984 DIVISION OF OIL

GAS & MINING

WINTERSHALL OIL & GAS CORP. 8-13 BRUSHY BASIN WASH SEC. 8, T37S-22E SAN JUAN COUNTY, UTAH

> IGT INTERMOUNTAIN GEO-TECH, INC. P. O. BOX 158 DELTA, CO 81416 303-874-7762

February 5, 1985

The Wintershall Brushy Basin Wash 8-13 Federal Well was spudded 1-23-85. Casing was set at 2404 ft. IGT Unit #1 was on location, rigged up and logging 1-28-85 at a depth of 4470 ft.

A bit trip was made 1-29-85 and drilling resumed averaging 600 ft. per day. Drilling continued rather smoothly with only a few minor freeze-up problems as the snow fell and the temperature continued to drop.

Another bit trip was made 1-31-85 just before the Upper Ismay formation was encountered. Drilling resumed 2-1-85 and the Upper Ismay was drilled with no drilling breaks or shows. The Lower Ismay formation was drilled, a drilling break and show was encountered so a trip was made in preparation for drill stem test #1.

Drill Stem Test #1 was run 2-2-85 with rather diaappointing results. Drilling resumed the evening of 2-2-85 and continued until another drilling break and show was encountered in the Desert Creek formation early in the morning of 2-3-85. Drill Stem Test #2 was run 2-3-85 with much better results than the first test.

Drilling resumed 2-4-85 and the well was Td'd the same day. Schlumberger set up to run electric logs but encountered some hole problems and could not get their tools on bottom. Drill pipe was run back into the hole and the hole was reamed out and cleaned up and Schlumberger was able to complete their logs 2-5-85. A velocity survey was run immediately following. IGT Unit #1 was released 2-5-85.

Jan A. Johnson Geologist - IGT

#### TABLE OF CONTENTS

2. 3.	SUMMARY OF DESTRUCTION REDST AND SHOW FORMATION TO	CORD SHEE	
			MUD LOG ( 5"=100') MUD LOG (2.5"=100')
DRI	LLING CONTRAC	TOR:	COLEMAN RIG #3 FARMINGTON, NEW MEXICO
DRI	LLING FOREMAN	J:	MR. JOHN LOWRY
PUSI	HER:		MR. GLEN STORIE MR. JOHN RICHARDSON
ŒO	TECHNOLOGIST	3S:	MS. JAN A. JOHNSON MR. TERRY DAOUST INTERMOUNTAIN GEO-TECH, INC. DELTA, CO 81416
DRI	LLING FLUIDS:	:	MR. JOHN HUNTER HUNTER MUD & CHEMICAL FARMINGTON, NEW MEXICO
DRI	LL STEM TESTS	S:	MR. DAN AULT MR. GENE ROBERTS HALLIBURION FARMINGTON, NEW MEXICO
WIR	E LINE LOGS:		MR. DAVE MAURER SCHLUMBERGER FARMINGTON, NEW MEXICO
GEO:	LOGIST:		MR. RIC KOPP WINTERSHALL OIL & GAS CORP. DENVER, CO

#### SUMMARY OF DAILY ACTIVITY

DATE	ACTIVITY	MIDNITE DEPTH	24 HOUR FOOTAGE
1-28-85	IGT UNIT #1 ON LOCATION RIGGED UP, LOGGING AT 4470'	· migraga	man days
1-29-85	TRIP FOR BIT #6 - DRLG, SURV	4470'	681 <b>'</b>
1-30-85	DRLG, SURV	5151'	573 <b>'</b>
1-31-85	DRLG - TRIP FOR BIT #7	5724	356
2-01-85	TIH - DRGL - CIRC FOR DST #1, SURV	60801	246 1
2-02-85	TOH - DST #1 - TIH, DRLG, SURV	6326'	711
2-03-85	DRLG - TOH - DST #2	6397'	35'
2-04-85	TIH - DRLG - "E" LOGS, SURV	6432¹	76 <b>'</b>
2-05-85	"E" LOGS, IGT UNIT #1 RELEASED	6508 <b>'</b>	

#### BIT RECORD

BIT	MAKE	SIZE	TYPE	DEPTH OUT	FOOTAGE USED	HOURS
1	REED	124	FP53	901	901	31/2
2	STC	17½	DΤ	90'	90'	11/2
3	REED	12½	FP53	1568	1478'	23
4	STC	124	F-3	2410'	8421	10½
5	STC	7 7/8	F-27	4468	2058	43
6	VAREL	7 7/8	V537	6084'	1616'	64
7	VAREL	7 7/8	V537	6508 <b>'</b>	424 '	27

#### DEVIATION SHEET FOR WELL. . . .

DEPTH	DEVIATION	(DEV)
90'	3.O	
230'	10	
503	3. <sup>O</sup>	
1011'	3 O	
1568	1 °	
2020	3.O	
2410'	1 0	
2920	10 4	
3416'	1 °	
3910 <b>'</b>	3.0 4	
4430'	3.O	
4928'	10	
5423	3 <sub>4</sub> 0	
6084'	1 <sup>1</sup> / <sub>4</sub> 0	
6327 <b>'</b>	34 <sup>O</sup>	
6508 <b>'</b>	3 O	

#### (IGT) DST & SHOW SHEET



SHOW # 1 1	FROM 6312 ' TO 6	322 '	DATE 2/01/85
WELL 8-13 Bru	ALL OIL & GAS CORP. shy Basin Wash		
FIELD <u>Wildcat</u>			
<del></del>	BEFORE SHOW	DURING SHOW	AFTEF. SHOW
DRILLING RATE	5MIN./Ft.	2½MIN.∕FT.	5MTN /F+
TOTAL GAS UNITS	5	30	4-5
METHANE %	3	1.1	3
ETHANE %	TR	.6	TR
PROFANE %	TR	· · · · · · · · · · · · · · · · · · ·	TR
BUTANE (ISO) %	-	-	
BUTANE (NOR) %	•••	_	
PENTANE %	-	-	<u>-</u>
	TR DILL YELLOW PIN	POINT FIOR NSOC	
DST #1	FROM 6296 TO 6	TOP CHART .	PATE 2/02/95 BOTTOM CHART
INITIAL HYDPOSTATIC		30.20	3030
INITIAL OPEN	. 15	14	27-27
INITIAL SHUT-IN	30	14	40
SECOND OPEN	50	14	27_27
SECOND SHUT-IN	60	14	40
FINAL HYDROSTATIC		3020	3030
1ST FLOW V W	FAX BIO-TR BUBBLES, N	O PRESSURE	
2ND FLOW 0 BI	OM NO PRESSURE		
REMARKS			внт <sup>о</sup> <sub>128</sub> ° <sub>F</sub>
DRILL PIPE RECOVERY	10' Mud		
SAMPLE CHAMBER RECO		Pressure	
DRILL PIFE- TOP- R/	W= at OF,	MIDDLE-I	
DRILL PIPE- BOTTOM-	0 '	SAMPLE (	HMBR R/W= at <sup>O</sup> F,
PIT MUD-R/W= at C	F		
CEO_TECT			

(IGT) DST & SHOW SHEET

SHOW #2	FROM 6416 ' TO 64	32 •	DATE 2/03/85	
CMPANY WINTERSH	ALL OIL & GAS CORP.			
ELL <u>8-13 Bru</u>	shy Basin Wash			· · · · · · · · · · · · · · · · · · ·
IELD <u>Wildcat</u>				
	BEFORE SHOW	DURING SHOW	AFTER SHOW	
RILLING RATE	35MIN./Ft.	1MIN./Ft		
CTAL GAS UNITS	5	800		
ETHANE %	TR	30%		
THANE %	mr.	6.5%		·
ROFANE %	••	4.4%		
JIANE (ISO) %	•••	η̈́̈́̈̀		· 
JIANE (NOR) %		TR		
entane %		_		
AMPLE FIOR AND CUI	G BL ON FIOR VSL MKY	CUT N STN		
ST #	FROM 6411 10 64	32 '	DATE 2/03/85	·
<u> </u>	MINUTES	TOP CHART	BOTTOM CHART	
NITIAL HYDPOSTATIO		3097.9	3129.1	<u> </u>
NITIAL CPEN	15	26.9-40.3	27.1-40.5	
NITIAL SHUT-IN	30	1936.7	1952.9	
ECOND OPEN	60.	26.9-93.9	40.6-108.2	
ECOND SHUT-IN	120	2423.0	2439.2	
INAL HYDROSTATIC		3097.9	3129_1	
ST FLOW MOD BLO	40z built to 41bs in 1	6 MIN. no gts	and the second seco	<del></del>
ND FLOW STRONG F	RIO ÅLBS BUILT TO 30LBS	TN 45 MTN GTS ON	" CHOKE, 8'FLAPE, 261bsin no	x <u>‡ 15</u>
EMARKS			BHT <sup>O</sup> 13	0 <sup>°</sup> F'
RILL PIPE RECOVERS	Y ALL GAS			·
AMPLE CHAMBER RECO	OVERY 750si-700cc gas f	formed mud-1700cc as	<b>1</b> S	
RILL PIFE- TOP- R	- 0		E-R/W= at <sup>O</sup> F,	*.
RILL PIPE- BOTTOM-		SAMPI	E CHMBR R/W= at OF,	, i
TT MUD-R/W= at	O <sub>F</sub>			

#### FORMATION TOPS

FORMATION	SAMPLE TOP DEPTH	E-LOGS DEPTH	SUB-SEA DEPTH
HONAKER TRAIL	5246'	5256 <b>'</b>	+569'
UPPER ISMAY	6124'	6134 <b>'</b>	-309'
HOVENWEEP	6220 <b>'</b>	6198'	<b>-</b> 373
LOWER ISMAY	6272'	6252'	<b>-427</b> ¹
GOTFIC	6322'	6302'	-477°
DESERT CREEK	6336'	6314'	<b>-4</b> 89 <b>'</b>
CHIMNEY ROCK	6450	6438'	<b>-</b> 613'
AKAH	6476'	6466'	-641

Form 9-331 Dec. 1973	Form Approved.  Budget Bureau No. 42-R1424
DEPARTMENT OF THE INTERIOR 15 1903	5. LEASE U-50412
SUNDRY NOTICES AND REPORTS ON WHATSOIL	6. IF INDIAN, ALLOTTEE OR TRIBE NAME None
(Do not use this form for proposals to drill or to deepen or plus back to a differ at	7. UNIT AGREEMENT NAME None
1. oil gas	8. FARM OR LEASE NAME Federal
2. NAME OF OPERATOR Wintershall Oil and Gas Corporation	9. WELL NO. #8-13
3. ADDRESS OF OPERATOR 5675 DTC Blvd, Englewood, CO 80111	10. FIELD OR WILDCAT NAME Wildcat  11. SEC., T., R., M., OR BLK. AND SURVEY O
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  AT SURFACE: 1420' FSL - 1230' FWL  AT TOP PROD. INTERVAL: Same  AT TOTAL DEPTH: Same	AREA Sec. 8, T37S-R22E  12. COUNTY OR PARISH 13. STATE San Juan Utah
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	14. API NO. 43-037-31105 15. ELEVATIONS (SHOW DF, KDB, AND WD 5811' GR
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:  TEST WATER SHUT-OFF	(NOTE: Report results of multiple completion or zon change on Form 9–330.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is dimeasured and true vertical depths for all markers and zones pertinen	rectionally drilled give subsurface least.

Ran 57 jts, 9-5/8", 36#, J-55 surface casing and set at 2404'. Cemented with 635 sxs Lite-Wt. cement w/1/4# per sx Celloflake and 2% CaCl. Tailed in with 300 sxs Class B w/2% CaCl and 1/4# per sx Celloflake. Circulated 30 bbls cement to surface.

Current operation 1/31/85: drilling ahead at 5850'.

Subsurface Safety Valve: Manu. an	d Type	-	Set @ _	Ft.
18. Thereby certify that the forego	ing is true and correct			
18. (hereby certify that the forego signed achard sur	Ste TITLE Sr.	Reservoir Engr <sub>DATE</sub>	2/11/85	 
	(This space for Fe	derat or State office use)	· · · · · · · · · · · · · · · · · · ·	-
APPROVED BY	TITLE	DATE		
CONDITIONS OF APPROVAL, IF ANY:				 _

cc: Utah OGMD

#### RECEIVED

Form Approved. Budget Bureau No. 42-R1424

D STATES

DEPARTMENT OF THE INTERIOR B 1 5 1985	
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME NONE
SUNDRY NOTICES AND REPORTS CHASCE MINING ON NOTICES AND REPORTS OF A SUM OF	7. UNIT AGREEMENT NAME None
servoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME Federal
l- Oii   gas	

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME
1. oil gas	Federal
well well other Dry hole	9. WELL NO. #8-13
2. NAME OF OPERATOR Wintershall Oil and Gas Corporation	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	Wildcat
5675 DTC Blvd., Englewood, CO 80111	11. SEC., T., R., M., OR BLK. AND SURVEY O
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SUBFACE. 1420' FSL - 1230' FWL	AREA Sec. 8, T37S-R22E
AT SURFACE: 1420 FSH 1230 FWH AT TOP PROD. INTERVAL: Same AT TOTAL DEPTH: Same	12. COUNTY OR PARISH 13. STATE San Juan Utah
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	14. API NO. 43-037-31105
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD

5811'GR; 5825 KB REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF FRACTURE TREAT

SHOOT OR ACIDIZE REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON\* (other)

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Pursuant to telephone notification, plugged well on 2/7/85 as follows:

w/106 sxs Hi-Early w/2% CaCl Plug #1 6509-6152 Plug #2 2500-2300 w/125 sxs Class B w/3% CaCl Plug #3 @ surface w/50 sxs Class B w/2% CaCl

Well P & A'd.

Subsurface Safety Valve: Manu. and Typ	oe	Set @ Ft.
18. Libereby certify that the foregoing is signed all and Shus U	true and correct  Sr. Reservoir Engr.	2/11/85
the state of the s	(This space for Federal or State office use)	
APPROVED BY	TITLE	DATE

Utah OGMD cc:

ACCEPTED BY THE STATE OF UTAH DIVISION OF

See Instruction REAS, AND MINING

FEDERAL LEASE NAME

FIELD

8



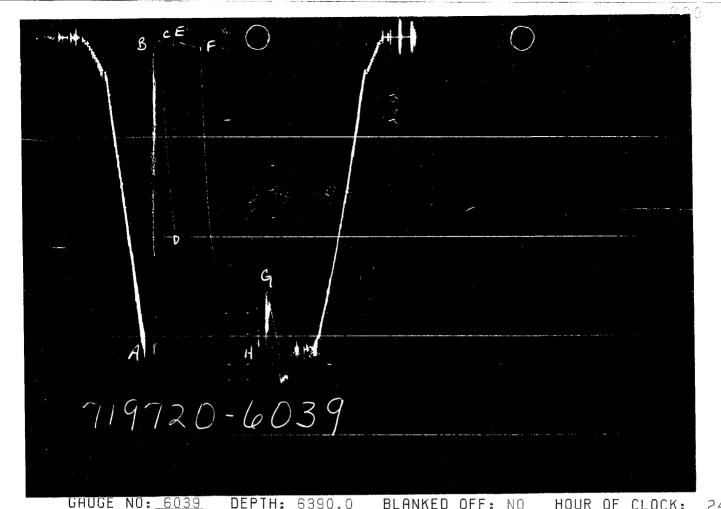
TICKET NO. 71972000 07-FEB-85 FARMINGTON

## RECEIVED

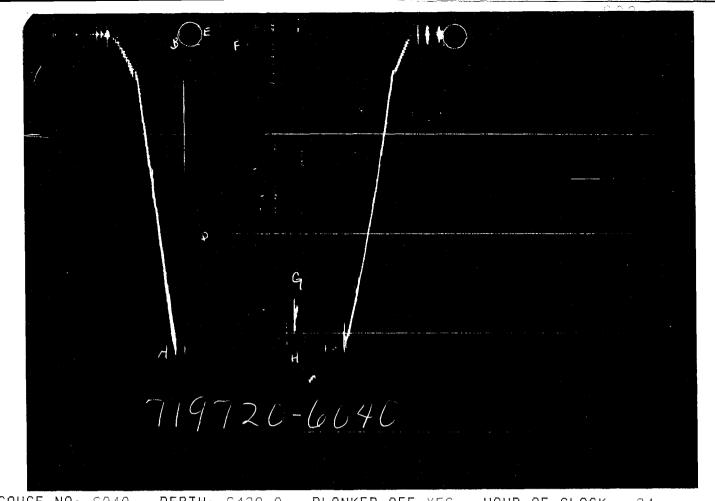
FEB 15 1985

DIVISION OF OIL

FORMATION TESTING SERVICE REPORT



DEPTH: 6390.0 BLANKED OFF: NO HOUR OF CLOCK: 24 **PRESSURE** TIME ID DESCRIPTION TYPE REPORTED | CALCULATED REPORTED CALCULATED INITIAL HYDROSTATIC 3098 3098.4 В INITIAL FIRST FLOW 27 27.7 16.0 15.1 F C FINAL FIRST FLOW 40 35.9 C INITIAL FIRST CLOSED-IN 40 35.9 30.0 28.8 C D FINAL FIRST CLOSED-IN 1937 1936.8 INITIAL SECOND FLOW Ε 27 28.4 60.0 F 61.2 F FINAL SECOND FLOW 94 98.8 F INITIAL SECOND CLOSED-IN 94 98.8 120.0 118.8 C G FINAL SECOND CLOSED-IN 2423 2432.9 Н FINAL HYDROSTATIC 3098 3079.1



GAUG	E NO: <u>6040</u> DEPTH: <u>6429.0</u>	BLANK	KED OFF: <u>Y</u> I	ES HOUR	OF CLOCK	: 24
ID	DESCRIPTION	PRE:	SSURE CALCULATED	T I REPORTED	ME CALCULATED	TYPE
А	INITIAL HYDROSTATIC	3129	3132.7			
В	INITIAL FIRST FLOW	27	48.6	10.0	1 = 1	_
С	FINAL FIRST FLOW	41	56.0	16.0	15.1	F
С	INITIAL FIRST CLOSED-IN	41	56.0	20.0	28.8	
D	FINAL FIRST CLOSED-IN	1953	1955.9	30.0	20.0	С
Ε	INITIAL SECOND FLOW	41	46.3	CO 0	61.2	F
F	FINAL SECOND FLOW	108	114.7	60.0	01.2	, , , , , , , , , , , , , , , , , , ,
F	INITIAL SECOND CLOSED-IN	108	114.7	120.0	110 0	
G	FINAL SECOND CLOSED-IN	2439	2450.8	120.0	118.8	С
Н	FINAL HYDROSTATIC	3129	3108.0			

EQUIPMENT & HOLE DATA	TICKET NUMBER: 71972000
FORMATION TESTED: DESERT CREEK	
NET PAY (ft):16.0	DATE: 2-3-85 TEST NO: 2
GROSS TESTED FOOTAGE: 21.0	TOPE NOT OPEN HOLE
ALL DEPIHS MEASURED FROM: KB	TYPE UST: OPEN HOLE
CASING PERFS. (ft):	HALLIBURTON CAMP:
HOLE OR CASING SIZE (tn): 7.875	FARMINGTON
ELEVATION (ft):	
TOTAL DEPTH (ft):6432.0	TESTER: ROBERTS
PACKER DEPTH(S) (ft): <u>6405, 6411</u>	Legien:
FINAL SURFACE CHOKE (tn): 0.250	C. C
BOTTOM HOLE CHOKE (in): 0.750	WITNESS: LOWRY
MUD WEIGHT (lb/gal):9.30	
MUD VISCOSITY (sec):	POLITIC CONTROCTOR
ESTIMATED HOLE TEMP. (°F): 180	DRILLING CONTRACTOR:
ACTUAL HOLE TEMP. (°F): 130 @ 6428.0 ft	COLEMAN #3
FLUID PROPERTIES FOR	10401 ED DOTO
RECOVERED MUD & WATER	SAMPLER DATA
SOURCE RESISTIVITY CHLORIDES	Pstg AT SURFACE:75
PIT SAMPLE 5.980 @ 68 °F 1300 ppm	cu.ft OF GAS: 0.40
	cc OF OIL:
	cc OF WATER:
	1 1 1
0 °Fppm	cc OF MUD: 700
6 °F ppm	TOTAL LIQUID cc: 700
HYDROCARBON PROPERTIES	CUSHION DATA
OIL GRAVITY (°API): @°F	TYPE AMOUNT WEIGHT
GAS/OIL RATIO (cu.ft. per bbl):	0.00
GAS GRAVITY:	
RECOVERED:	,
REVERSED OUTGAS TO SURF	- 100 H
A 1	- B
	FER
	:HS
REMARKS:	
REPORTED ELEVATION MEASURED AT GROUND LEVEL	2
WELOWIER FEFAULTON HEUROGED HE RECORD FEAFF	MUD DOIT LEEL.
NET PAY WAS FROM 6416' TO 6432'.	
	Springs.
	and the second of the second o

1112 4 3	122 112113011	ING DEVICE:		3.70070	TICKET NO: 71972000
TIME	CHOKE S1ZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
2-3-85					
0950					ON LOCATION
1020					PICKED UP AND MADE UP TOOLS
1136					TRIP IN HOLE WITH TOOLS
1420	ВН	4 OZ			OPENED DOL WITH A STRONG BLOW,
	ļi.				TO BOTTOM OF BUCKET.
1422	44	21 OZ			PSI INCREASING
1424	"	27 OZ			SAME
1426	के विकास कर के किया है। के विकास कर के किया के	30 OZ			SAME
1428	₩ 9	33 OZ			SAME
1430	1	35 OZ			SAME
1432	**************************************	3.5#			SAME
1434	- 11	3,5#			SAME
1436	11	4#			CLOSED TOOL, NO GAS TO SURFACE.
1506	41	4#			OPENED TOOL WITH A STRONG BLOW
1516	41	11#			PSI INCREASING
1526	**	15.5#			SAME
1536	71	20.5#			SAME
1546	41	26#			SAME
1552	1/4	28#			GAS TO SURFACE. SWITCHED TO
					АDJUSTABLE СНОКЕ.
1556	- 11	27#			PSI DROPPING SLIGHTLY. FLARE
					то ріт.
1601	71	26#			SAME
1606	11	26#			CLOSED TOOL
1806					OPENED BY-PASS
1826					DROPPED BAR AND REVERSED OUT
2000					TRIP OUT OF HOLE WITH TOOLS
2400				·	OUT OF HOLE WITH TOOLS
2-4-85					
0130	!				JOB COMPLETED.
	!			***************************************	
:					
			. :		
esterna e di					

TICKET NO: 71972000

CLOCK NO: 14128 HOUR: 24



GAUGE NO: 6039

**DEP†H:** 6390.0

1	1 7	7	1	4 12 84	1 1 1 1							4
REF	MINUTES	PRESSURE	ΔP	<u>t×∆t</u> t+∆t	$\log \frac{t + \Delta t}{\Delta t}$	RE	F	MINUTES	PRESSURE	ΔΡ	<u>t×∆t</u> t+∆t	log <u>t+Δt</u>
					Y		SE	COND FLOW -	CONTINUED			
	i.	FIRST	FLOW	N 1		1	9	\$2.0	73.0	5.2		
_	¥.					ı	10	\$6.0	79.3	6.3		
B 1	0.0	27.7				. ]	11	40.0	84.9	5.6		
2	1 10		0.9			ŀ	12	44.0	91.1	6.2		
3			0.0				13	48.0	94.7	3.6		
4	25		0.0				14	52.0	95.7	0.9		
5	T.,		0.0				15	56.0	96.9	1.2		
ε			0.0			1 _	16	60.0	98.1	1.2		9
7	1/2		0.0			F	17	61.2	98.8	0.7		
8	72 -		0.5			1		, a	5			
9	1.2		0.8						-daub a	. ^^=		j
10			0.7			1		30	COND C	LOSED-I	IN .	
11			1.3			F			00.0			(
12	f.,		1.6				1	0.0	98.8	200 4		
13	17.		0.8		j	1	5	1.0	335.1	236.4	1.0	1.872
14 15	4.1		1.3 0.5				3 4	3.0	500.3 688.3	401.5 589.5	2.0	1.590
C 16	12		-0.4			1	5	4.0	856.1	757.4	2.9	1.419
1 0 10	, 13.1	. 33.3	-0.4			1	5 6	5.0	1019.5	920.8	3.8 4.7	1.303
l	4					1	7	5.0	1159.7	1061.0	5.6	1.136
]	į l	FIRST CL	OSED-IN	J			8	7.0	1265.4	1166.7	6.4	
1			-0025 11			1	9	8.0	1362.7	1264.0	7.2	1.024
C 1	0.0	35.9				1	10	9.0	1474.0	1375.3	8.1	0.976
2	- 1		96.7	0.9	1.208	1	11	10.0	1563.2	1464.4	8.9	
9			186.9	1.8	0.933	1	12	12.0	1715.8	1617.0	10.3	0.868
4			277.6	2.5	0.782	1	13	14.0	1849.6	1750.9	11.8	4
5	4.0	391.7	355.8	3.2	0.677	1	14	16.0	1952.4	1853.7	13.2	0.760
6	5.0	486.7	450.8	3.8	0.603	1	15	18.0	2035.6	1936.8	14.6	0.719
7	7.5		535.0	4.3	0.549	1	16	20.0	2097.5	1998.7	15.8	0.683
8	7.0		636.1	4.8	0.500	1	17	22.0	2153.7	2054.9	17.1	0.649
9			734.0	5.2	0.462	1	18	24.0	2196.9	2098.2	18.3	0.621
10			834.5	5.7	0.427	1	19	26.0	2231.1	2132.4	19.4	0.595
11			920.0	6.0	0.399	1	20	28.0	2259.1	2160.4	20.5	0.571
12			1071.3	6.7	0.354		21	30.0	2283.2	2184.4	21.6	0.549
13			1211.9	7.3	0.318	1	22	35.0	2326.1	2227.4	24.0	0.502
14			1338.7	7.8	0.289	1	23	40.0	2353.8	2255.1	26.2	0.464
15			1456.2	8.2	0.264		24	45.0	2372.6	2273.9	28.3	
16 17			1554.0	8.6	0.244 0.227		25	50.0	2385.1	2286.3	30.2	
18			1646.3 1732.7	9.0 9.3	0.227		26 27	55.0 60.0	2395.1	2296.3	32.0	0.378 0.356
19			1809.1	9.6	0.199	1	28	70.0	2412.6	2303.1 2313.9	36.5	
D 20			1900.9	9.9	0.183	1	29	80.0	2420.1	2313.3	39.0	
		1000.0	1000.0	0.0	0.100	1	30	90.0	2424.8	2326.0	41.3	
	!					1	31	100.0	2427.8	2329.0	43.3	
1	1	SECONE	FLOW			1	32	110.0	2431.3	2332.5	45.1	
				100		G	33	118.8	2432.9	2334.2	46.5	
E 1	0.0	28.4					-					
2			0.5		1	1		i i	•		į	
3	8.0	36.4	7.5								1	•
4	4.7		4.8									
5			7.2			1		i				- 1
6	20.0		6.7						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		}	1
7			6.7					1	1.		į	
8	28.0	67.8	5.9		ì			*	1.			}
								1	4.1		:	1

REMARKS:

TICKET NO: 71972000

CLOCK NO: 13741 HOUR: 24



GAUGE NO: 6040

DEPTH: 6429.0

REF	MIN	UTES	PRESSURE	ΔР	<u>t×∆t</u> t+∆t	log <u>t+Δt</u>	RE	F	MINUTES	PRESSURE	ΔР	<u>t×∆t</u> t+∆t	1 ο <u>σ t + Δt</u>
		t.						ŞE	COND FLOW -	CONTINUED		<del></del>	
		:	FIRST	FLOW				9	32.0	90.5	5.0		ļ
B 1			40.0					10	36.0	96.3	5.8		1
B 1		0.0	48.6	٥			l	11	40.0	101.7	. 5. 4		j
3		1.0	49.1 49.1	0.5 0.0		•	]	12	44.0	107.6	5.9		1
4		3.0	49.1	0.0				13	48.0 \$2.0	110.8	3.1		
5		4.0	49.1	0.0				14 15	\$2.0 56.0	111.7	0.9 1.4		
6		5.0	49.1	0.0				16	50.0 50.0	113.1	0.5		4.
7	- 1	6.0	49.1	0.0			l F	17	61.2	114.7			1
8	10	7.0	50.2	1.1				- '	F				
9	•	8.0	51.1	0.9					ř L				
10		9.0	51.8	0.7					SE	COND C	LOSED-I	N	
-11		10.0	52.5	0.7					1.1				
12	1	11.0	53.3	0.8			F	1	0.0	114.7			
13		12.0	54.4	1.1			1	2	1.0	272.1	157.5		1.886
14	- 1	13.0	55.0	0.7				3	<sub>#</sub> 2.0	451.8	337.1		1.590
15		14.0	55.3	0.3				4	3.0	651.8	537.1		1.420
C 16	ļ.	15.1	56.0	0.7			1	5	4.0	785.7	671.0	3.8	1.300
1	ľ							6	5.0	939.5	824.8	4.7	1.209
1	4.		TPST CI	OSED-IN	Ì			7	6.0	1059.8	945.1	5.6	1.137
	1	1	IV21 CF	מון –משכט.			1	8	7.0	1175.6	1060.9	6.4	
C 1	1	0.0	56.0					9	8.0	1293.0	1178.3	7.3	
2		1.0	141.4	85.4	1.0	1.193		10 11	9.0 10.0	1384.0	1269.3	8.1	
3		2.0	223.9	167.9	1.8	0.924		12	12.0	1479.0 1639.4	1364.3 1524.7	8.8	0.937
4	4.5	3.0	314.7	258.7	2.5	0.779		13	14.0	1762.6	1647.9	10.4 11.8	0.866 0.811
5	12°	4.0	396.3	340.3	3.2	0.677		14	16.0	1882.6	1767.9	13.2	
6	j.	5.0	484.0	428.0	3.7	0.607	1	15	18.0	1980.4	1865.7		0.719
7	Ţ.	6.0	579.1	523.1	4.3	0.548	1	16		2056.9	1942.2	15.9	0.682
8	1	7.0	675.3	619.3	4.8	0.501	J	17	22.0	2125.3	2010.6	17.1	0.651
9	15	8.0	765.0	709.0	5.2	0.462	1	18	24.0	2180.5	2065.9	18.3	0.621
10		9.0	851.0	795.0	5.6	0.428	1	19	26.0	2223.1	2108.4	19.4	0.595
11		10.0	935.4	879.4	6.0	0.400	1	20	28.0	2257.4	2142.8	20.5	0.571
12		12.0	1091.2	1035.2	6.7	0.353	1	21	30.0	2285.8	2171.1	21.6	0.549
13		14.0	1234.2	1178.2	7.3	0.318	1	22	35.0	2335.8	2221.1	24.0	0.503
14		16.0	1367.8	1311.8	7.8	0.288		23	40.0	2366.9	2252.2	26.3	0.463
15	,	18.0	1488.4	1432.4	8.2	0.265		24	45.0	2387.2	2272.5	28.3	0.430
16 17	- 1	20.0	1593.6 1691.8	1537.6	8.6	0.245	1	25	50.0	2401.8	2287.1	30.2	
18		24.0	1776.2	1635.8 1720.2	9.0 9.3	0.227 0.212	1	26 27	55.0 60.0	2412.9 2420.8	2298.2		0.378
19		26.0	1864.8	1808.8	9.6	0.199	1	28	70.0	2420.8	2306.2 2317.1	33.6 36.5	0.356 0.320
D 20	*.	28.8	1955.9	1899.9	9.9	0.183	1	29	80.0	2431.0	2324.0	39.1	0.320
]	1.			1000.0		0.100	1	30	90.0	2443.3	2328.6	41.3	0.267
							1	31	100.0	2446.7	2332.0	43.3	0.246
			SECOND	FLOW				32	110.0	2449.4	2334.7	45.1	0.229
	- 4						G	33	118.8	2450.8	2336.2	46.5	0.215
E 1		0.0	46.3				1			1		1	ļ
2		4.0	48.7	2.4			1					į	
3		8.0	54.4	5.7			1					İ	
4		12.0	60.6	6.2			1					ŀ	i
5		16.0	67.2	6.6			1		1		•	-	ł
6		20.0	73.3	6.1						•			i
7		24.0	79.4	6.1	-							į	
8	W.	28.0	85,5	6.1		- 1	1		1			i.	
L									· · · · · · · · · · · · · · · · · · ·				1

REMARKS:

TICKET NO. 71972000

			<del>,</del>			
			0.D.	I.D.	LENGTH	DEPTH
	***					
1	d	PRILL PIPE	4.500	3.826	5502.0	
		ORILL COLLARS	6.250	2.250	813.0	
	В	IMPACT REVERSING SUB	6.000	3.000	1.0	6315.0
		DRILL COLLARS	6.250	2.250	60.0	
		CROSSOVER	6.000	3.000	1.0	
	a	DUAL CIP SAMPLER	5.000	0.750	7.0	
	۵	HYDROSPRING TESTER	5.000	0.750	5.0	6388.0
		AP RUNNING CASE	5.000	2.250	4.0	6390.0
		j. JAR	5.000	1.750	5.0	
	v	VR SAFETY JOINT	5.000	1.000	3.0	
		OPEN HOLE PACKER	6.750	1.530	6.0	6405.0
		OPEN HOLE PACKER	6.750	1.530	6.0	6411.0
		FLUSH JOINT ANCHOR	5.750	2.500	15.0	
	D	BLANKED-OFF RUNNING CASE	5.750		4.0	6429.0
		TOTAL DEPTH				0400.5
		1				6432.0

EQUIPMENT DATA

### RECEIVED

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING 4241 State Office Building Salt Lake City, UT 84114

FEB 15 Lus

DIVISION OF OIL GAS & MINING

#### \*REPORT OF WATER ENCOUNTERED DURING DRILLING\*

Well Name & Number	Federal #8-	-13								
Operator Wintersh	all Oil and (	as Corp <b>Add</b>	ress_	5675 Engle	DTC I	31vd., Ste , CO 80111	. 200			
Contractor Coleman	n Drilling Co	AddAdd		Drawe Farmi		37 n, NM 8749	9			
Location NW 1/4	SW 1/4 Sec	. <u>8</u> T	37s	_ R	22E	County San	Juar			
Water Sands										
Depth		Volume			<u>Q</u>	uality				
From To	Flor	v Rate or He	ad	Fresh or Salty						
1. NO WATER E	NCOUNTERED DU	JRING DRIL	LING.							
2										
3										
4							***************************************			
5.										
	(Continue on re	everse side	if nec	cessar	у)					
Formation Tops Remarks	Cutler/DeChe Honaker Trai Upper Ismay Lower Ismay Desert Creek	11 5200' 6134' 6252'	4 '							
NOTE: (a) Report and Re	on this form agulations and I	as provided Rules of Pra	for in	n Rule and Pr	C-20, rocedu	General Rui	les			

(b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

# DE

SUBMIT IN DUPLICAT

T.OTILL S	:Dhrose	4,	
Budget	Bureau	No.	42-R355.

EPARTMENT OF THE INTERIOR		(See oth struction on reverse side)	Д	uuget Bureau No.	44-1
	lo	reverse side)	5. LEASE DES	SIGNATION AND S	ERIA
GEOLOGICAL SURVEY			U-5041	2	
the state of the s					

WELL CO	MPLETION	OR RECO	<b>MPLETIO</b>	N F	REPORT	AN	D LO	G*			ALLOTT	EE OR TRIBE NAME		
1a. TYPE OF WEL		GAS	DRY		Other				None		MENT I	NAME		
b. TYPE OF COM									None					
NEW WELL	WORK DEEP	PLUG BACK	DIFF. RESVR.		Other P&	A'd			S. FARM		EASE NA	AME		
2. NAME OF OPERAT									Fede	eral	_			
wintersna	all Oil an	id Gas C	orporat:	lon				1	9. WELI					
3. ADDRESS OF OPE	Blvd., St	200	Engloss.	Pro B	ECEN	<i>1</i> 5	n		_#8÷1					
			and the second second						Wild	_		OR WILDCAT		
4. LOCATION OF WE At surface 14	120 FSL -	- 1230 .	accoraance wi FWL		•		ts)*							
		•		r	EB 251	985				., T., R. AREA	, M., OR	BLOCK AND SURVEY		
At top prod. int	terval reported belo	w Sam	e NW	56	J				Sec.	8,	Т3	7S-R22E		
At total depth	Same			DI	VISION O	FO	IL.							
					AS & MI	AHMC	SSUED		12. COU	NTY OF	3	13. STATE		
					1105		/20/8		San		ın	Utah		
1/23/85	2/5/85	P&A	d 2/6	-	1 10	ELEV	ATIONS (	OF, REB, R	T, GR, ETC	2.)*	19. ELI	EV. CASINGHEAD		
20. TOTAL DEPTH, MD	<u> </u>	BACK T.D., MD &			TIPLE COMPL.	-		₹; 58						
6509'	EI. FLOG,			DW MA	None		23. INT	LLED BY	rotary Y∈		s i	CABLE TOOLS NO		
24. PRODUCING INTER	RVAL(S), OF THIS C	OMPLETION-TO	P. BOTTOM, NAM	4E (M			<u> </u>	<u>→</u>			1 25	WAS DIRECTIONAL		
Nor					/-/		•					SURVEY MADE		
												No		
26. TYPE ELECTRIC										2	7. WAS	WELL CORED		
BHC-Sonic	; DIL/SFI	; CNL/F	DC (S/	وسهر	su-	>	at .		< '		No	0		
88.		CAS	ING RECORD	(Repo	ort all strings	set in	ı well)	<del></del>						
CASING SIZE	WEIGHT, LB./F				E SIZE		CE	MENTING I	RECORD			AMOUNT PULLED		
13-3/8"	54.5#				1/2"	I—	10 sx	s	· .		_	None		
9-5/8"	36#	24	04'	12-1/4" 935 sxs				S	None					
	-								<del></del>		_			
29.	r.	INER RECORD	<u> </u>				30.		TIDING T					
SIZE		BOTTOM (MD)	SACKS CEMEN	in*	SCREEN (MI	-	SIZE	1	UBING I					
			-							(515)		ACKER SET (MD)		
		NONE -		[-					-NONE	}	_			
1. PERFORATION REC	ORD (Interval, size	and number)			32.	AC	D, SHOT	, FRACTU	JRE, CEM	MENT	SQUEE	ZE, ETC.		
NONE					DEPTH INT	ERVAL	(MD)	AMO	UNT AND	KIND	OF MAT	TERIAL USED		
	•						· · · · · · · · · · · · · · · · · · ·		NONE	1				
					<del></del>							·		
3.*		·	,	DRCD	UCTION	-			<del></del>					
ATE FIRST PRODUCT	ION PRODUC	TION METHOD (				and ty	pe of pur	np)	l w	ELL ST	CATUS (	Producing or		
					•					shut-i	n)	&A'd		
ATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FO		OIL-BBL.		GASM	CF.	WATER-	-BBL.		S-OIL RATIO		
		_}		<b>►</b>	•			,			1			
LOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RAT	OIL—BBL.		GASI	MCF.		WATER-	BBL.	10	IL GRAV	/ITY-API (CORR.)		
A DISPOSIMION OF S	AP (Sold mad to t			·		· .			· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		
4. DISPOSITION OF G	no (voia, used for fi	uci, vented, etc.)	,						TEST WI	TNESSI	ED BY			
5. LIST OF ATTACH	MENTS DOLLO	110 000	mt in		~									
and the second s	DTS will	l's ceme be sent	directl	epo	OFT IS	att	tacne	u.			2 * 1			
6. I hereby certify	that the foregoing	and attached i	nformation is	- Y comple	ete and corre	et as	determin	ce Dy	Ser	VIC	e co	ompanies.		
	16.10	1/2	/						144161	150	~1.40			
SIGNED	20 1 T.	rower	_ TITLE		Operati	Lons	s Man	ager	D	ATE .				
								- <u> </u>						

# NSTRUCTIONS

General: Thisgiorm is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

In or filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State

or rederal once for special matructions.

Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Hems 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval. or intervals, ton(s), bottom(s) and name(s) (if any) for only the interval in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval or Federal office for specific instructions.

"Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.) Item 29:

		TOP	TRUE VERT. DEPTH															
	GEOLOGIC MARKERS		MEAS. DEPTH		3364	5200	6134	6252	6314									
	38. GEOLO	BATTA	A to By		Cutler	Honaker Trai	Upper Ismay	Lower Ismay	Desert Creek	-								
	TESTS, INCLUDING														•			
	CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.				<b>∀</b>												
				Lower Ismay	<b>!</b>	Desert Creek	liburton)											
	USED, TIME TOOL (	BOTTOM		7 1		<b>`</b> ⊢	y by Hal											
	US ZONES: ANT ZONES OF POI ESTED, CUSHION	TOP		#1, 6286-632	_	#2, 6432 <del>-</del> 641	Sent directly by Halliburton											
	37. SUMMARY OF POROUS ZONES POROSITY AND CONTENTS THEREOF; SHOW ALL IMPOURANT SONES OF POROSITY AND CONTENTS THEREOF; DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING	FORMATION		DST		DST	(Sem		•		•							